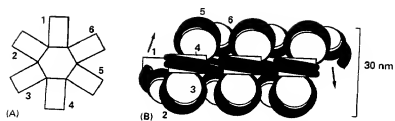
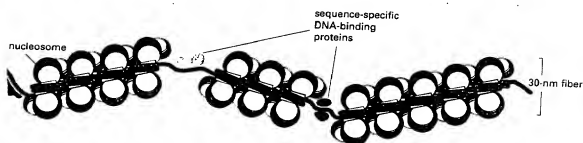


Figure 1



(a)



(b)

Figure 2

3/26

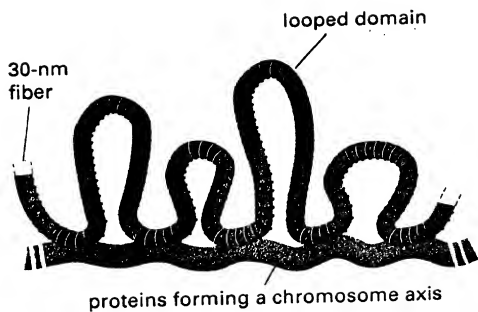


Figure 3

4/26

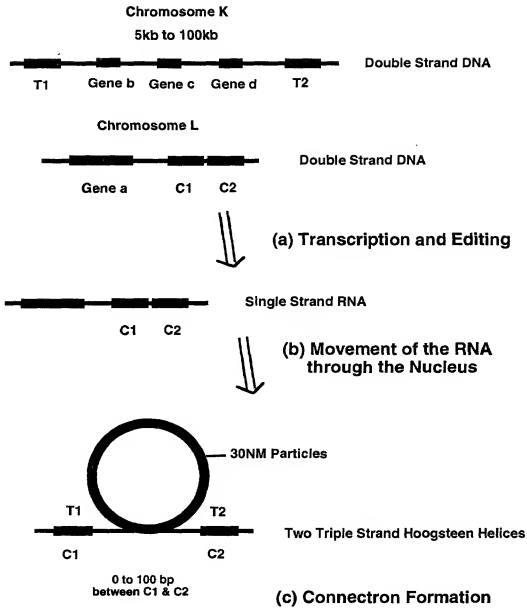


Figure 4

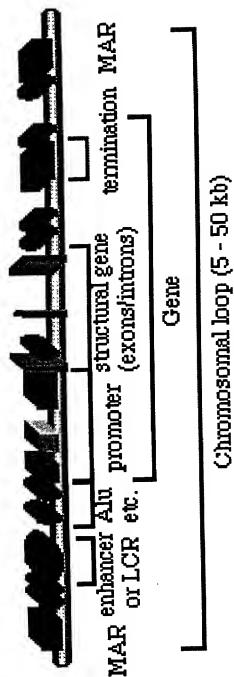


Figure 5

11/12/2011 11:20:36 AM

Genome	Chromosome Number	Number of Genes	Chromosome Length (bp)	Total Number of C1/C2 Short Loops	Total Number of T1/T2 Long Loops	Number of Unique C1/C2 Short Loops	Number of Unique T1/T2 Long Loops	Percent of Genes Controlled
Table 1								
<i>E. coli</i>	I	4,289	4,639,221	544	544	214	178	24.78
<i>H. pylori</i>	I	1,866	1,667,867	19	19	17	10	10.93
<i>M. luteus</i>	I	1,715	1,864,970	1,648	1,648	122	360	35.12
<i>D. melanogaster</i>	I	2,590	2,646,638	974	928	246	292	
III - Plasmid MP1		357	412,348	113	14	17	10	
IV - Plasmid CP1		35	45,704	81	1,258	87	464	
Totals		3,103	3,264,150	1,981	1,981	28	45	77.14
<i>S. cerevisiae</i>	I	110	230,209	898	283	26	112	
II		172	813,137	1,387	2,516	588	1,094	
III		845	1,520,519	4,293	3,456	1,258	553	
IV		280	576,870	2,034	2,888	638	1,111	
V		127	270,148	438	155	153	45	
VI		629	1,090,936	3,003	2,776	981	992	
VII		279	562,698	1,207	410	433	166	
VIII		425	848,855	2,481	2,481	133	48	
IX		408	748,440	1,601	2,218	128	68	
X		351	666,448	513	228	138	68	
XI		578	1,078,173	3,010	4,282	951	1,921	
XII		501	924,430	2,306	3,254	680	1,220	
XIII		458	784,328	1,579	460	528	144	
XIV		1,008	1,081,283	1,650	826	543	210	
XV		513	846,989	2,628	2,680	820	997	
Totals		6,538	12,057,849	28,139	28,139	8,737	10,697	19.86
<i>C. elegans</i>	I	2,474	16,183,833	315,926	159,815	12,245	24,537	
II		3,034	17,004,952	133,735	92,685	13,370	26,647	
III		2,000	13,771,711	87,716	897,303	8,472	138,469	
IV		2,533	15,867,371	67,156	87,303	10,671	33,571	
V		4,358	21,286,512	337,841	246,674	16,612	33,571	
X		2,625	17,624,844	611,789	63,719	6,136	2,805	
Totals		17,123	100,086,022	1,549,658	1,549,658	66,478	245,449	33.6

Table 1 - page 1

Genome	Chromosome Number	Number of Genes	Chromosome Length (bp)	Total Number of C1C2 Short Loops	Total Number of T1T2 Long Loops	Number of Unique C1C2 Short Loops	Number of Unique T1T2 Long Loops	Percent of Genes Controlled
O. megadolus								
	Scaffold							
	1	1,138	10,544,115	16,200	17,916	3,568	5,015	
	2	698	4,515,887	3,293	9,317	855	2,634	
	3	833	5,077,492	5,502	3,027	1,038	556	
	4	1,075	9,080,116	129,140	127,538	1,568	5,910	
	5	1,777	15,101,630	16,800	16,463	2,565	2,093	
	6	122	1,265,848	669	237	100	110	
	7	28	4,586,327	476	585	208	378	
	8	519	4,881,283	10,721	10,731	633	633	
	9	285	2,468,821	2,666	2,666	924	214	
	10	286	2,159,491	1,436	1,049	484	363	
	11	1,622	16,346,901	6,583	8,415	2,363	1,860	
	12	143	1,363,555	151	15	64	13	
	13	3,075	24,259,494	11,273	9,274	3,133	1,609	
	14	49	705,860	1,922	1,754	606	652	
	15	91	1,361,931	3,544	4,719	907	2,721	
	16	1,053	1,652,533	1,516	1,516	526	526	
	17	1,869	13,672,785	6,720	3,296	1,925	739	
	18	61	751,204	1,451	2,521	490	1,586	
	19	35	403,864	471	1,291	212	926	
	Totals	13,924	115,229,998	219,014	219,014	21,237	26,411	5.21
A. thaliana								
	Ia	3,321	14,291,615	29,785	29,165	3,310	4,609	
	Ib	3,326	14,668,843	22,282	22,056	3,310	4,609	
	II	4,038	19,647,031	153,605	75,591	10,377	19,280	
	IV	3,923	17,550,082	529,824	601,594	6,445	54,956	
	Totals	14,216	66,087,871	722,366	722,366	24,175	86,173	7.51
H. sapiens								
	XII	position data not available	39,667,731		> 10,000			

Table 1 - page 2



S. Cerevisiae - Fragment Distribution

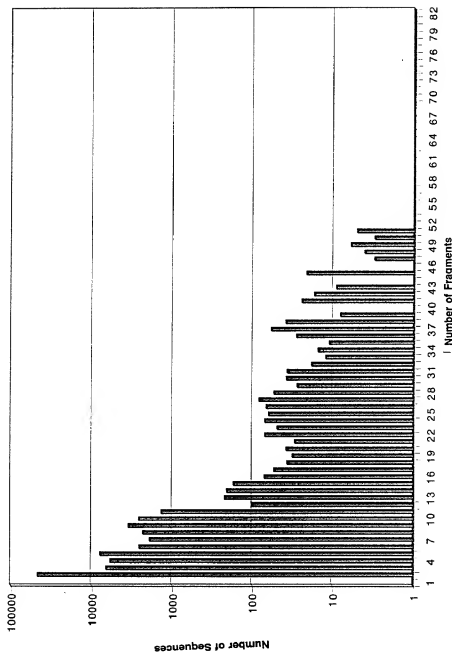
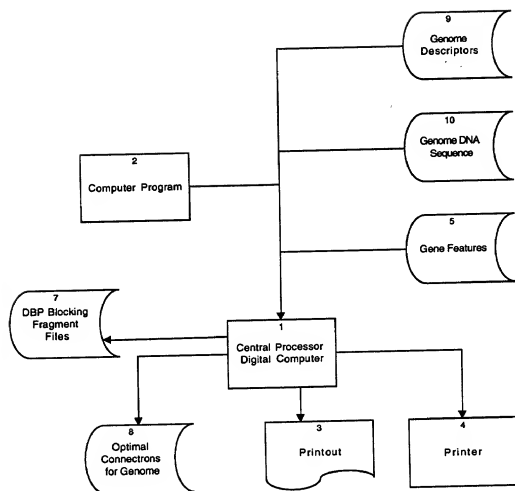


Figure 7

**Figure 8**

12/26

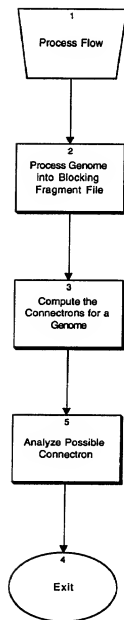


Figure 9

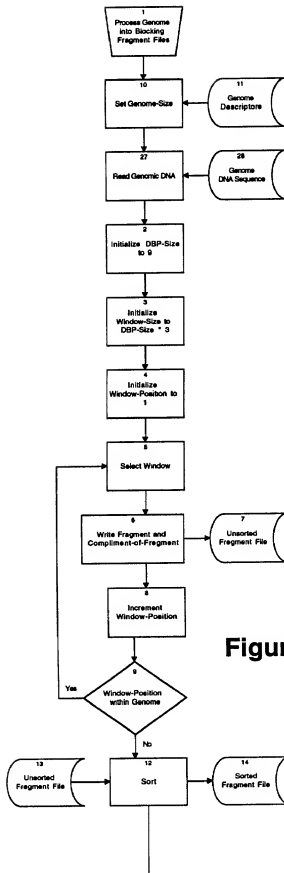


Figure 10 - page 1

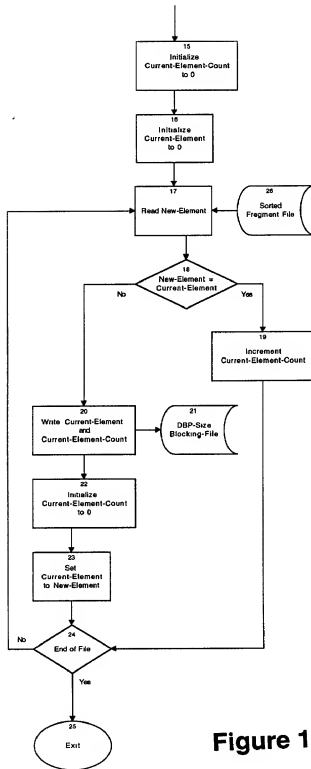
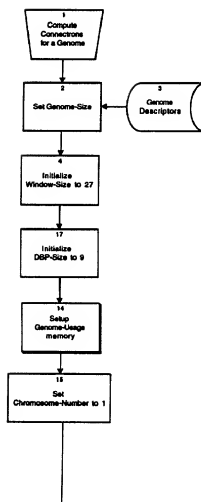


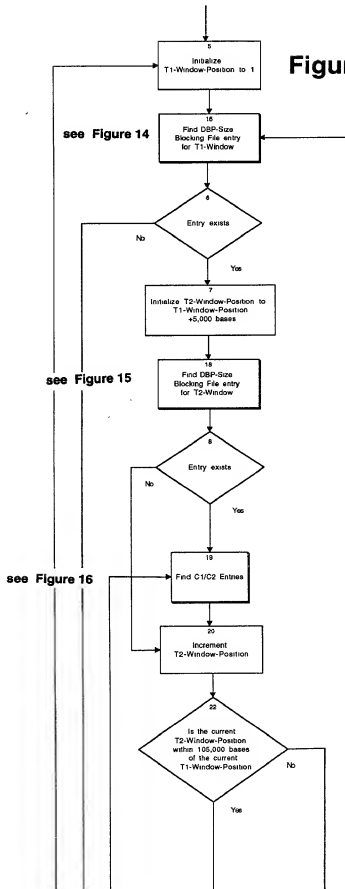
Figure 10 - page 2

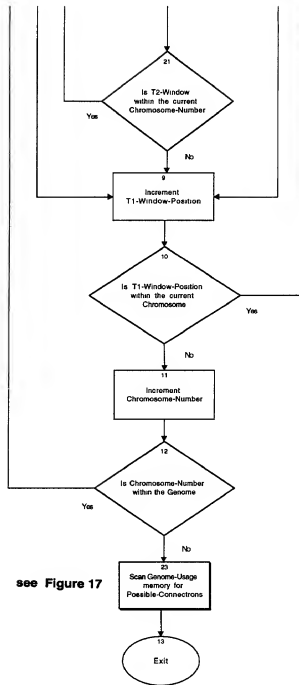
Figure 11 - page 1



see Figure 13

Figure 11 - page 2





see Figure 17

Figure 11 - page 3

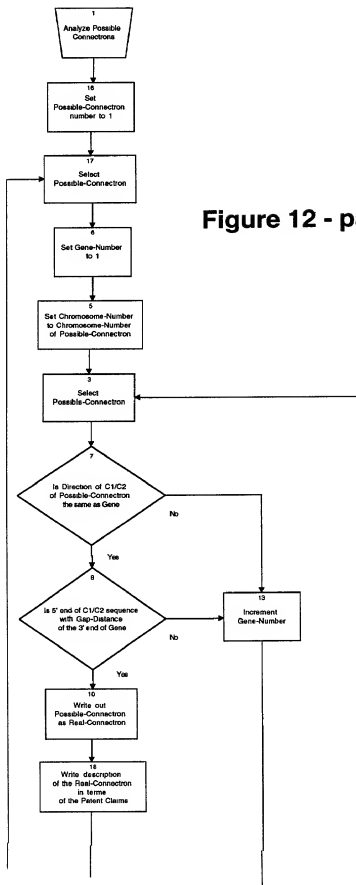


Figure 12 - page 1

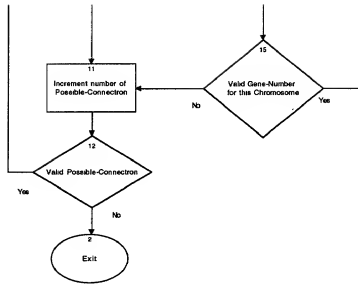


Figure 12 - page 2

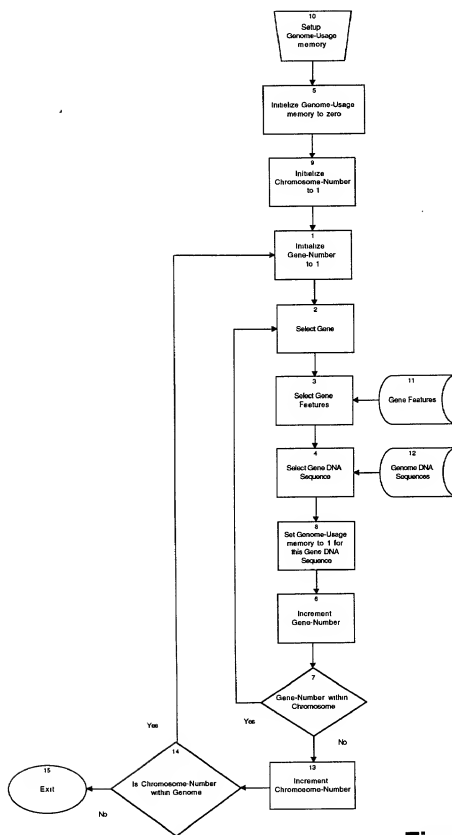


Figure 13

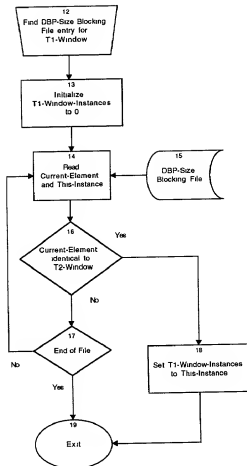


Figure 14

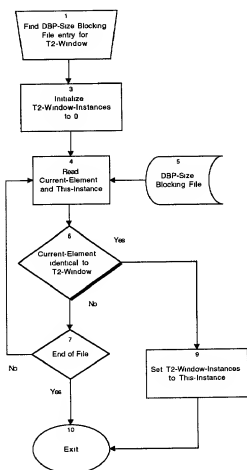
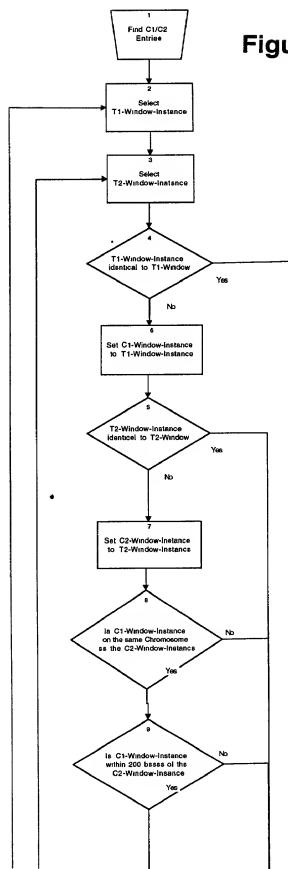


Figure 15

Figure 16 - page 1



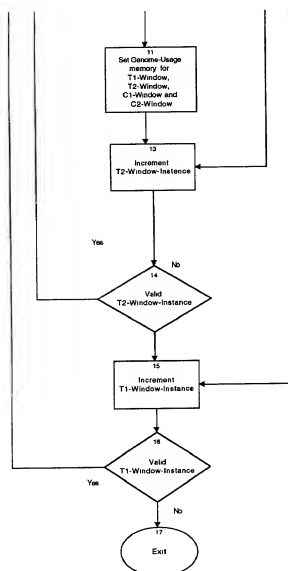
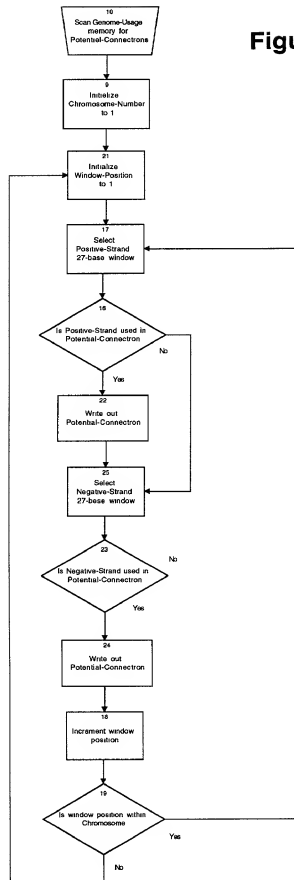


Figure 16 - page 2

Figure 17 - page 1



[illegible]